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IS 4570-2 (1999): Crystal Unit Holders, Part 2: Metal, Solder-sealed, Two Pin Crystal Unit Holders Types AA And AB [LITD 5: Semiconductor and Other Electronic Components and Devices]

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टाइप एए व एबी
(पहला पुनरीक्षण)

Indian Standard

SPECIFICATION FOR CRYSTAL UNIT HOLDERS
PART 2 METAL, SOLDER-SEALED, TWO PIN CRYSTAL UNIT HOLDERS
TYPES AA AND AB
(*First Revision*)

ICS 31.140

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BUREAU OF INDIAN STANDARDS
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FOREWORD

This Indian Standard (Part 2) (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Piezoelectric Devices for Frequency Control and Selection Sectional Committee had been approved by the Electronics and Telecommunication Division Council.

The objective of this standard is to specify the outline dimensions, pin spacing and alignment gauge for crystal unit holder of types AA and AB.

This Indian Standard is largely based on Sheet 1(a) and 1(b) of IEC 122-3 (1977), with Amendment No. 3 (1992), 'Quartz crystal units for frequency control and selection — Part 3: Standard outlines and pin connections', issued by International Electrotechnical Commission (IEC).

The revision has been undertaken to align this standard with the latest international practices, and tolerances of dimensions, which do not effect the replaceability, have been deleted.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2: 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be same as that of the specified value in this standard.

*Indian Standard***SPECIFICATION FOR CRYSTAL UNIT HOLDERS****PART 2 METAL, SOLDER-SEALED, TWO PIN CRYSTAL UNIT HOLDERS****TYPES AA AND AB***(First Revision)***1 SCOPE**

This standard (Part 2) covers metal, solder-sealed, two pin crystal unit holder Types AA and AB intended for use in electronic equipment.

2 REFERENCE

The following Indian Standard is a necessary adjunct to this standard:

| IS No. | Title |
|---------------------|--|
| 4570 (Part 1): 1983 | Specification for crystal unit holders : Part 1 General requirements and tests (<i>first revision</i>) |

3 TYPE DESIGNATION

The two pin crystal unit holders covered in this standard shall be designed as under:

a) Metal, solder-sealed, two pin crystal unit

holder type AA; and

b) Metal, solder-sealed, two pin crystal unit holder type AB.

4 OUTLINE AND DIMENSIONS

4.1 The outline and dimensions shall be according to Fig. 1 and Table 1.

5 PIN SPACING AND ALIGNMENT GAUGE

5.1 The pin spacing and alignment gauge for two pin crystal unit holders types AA and AB shall be according to Fig. 2 and Table 2.

6 GAUGING PROCEDURE

6.1 The entire length of the pins shall, without undue force, pass into and disengage from the gauge.

6.2 When fully engaged, the free ends of the pins shall lie between the faces *X* and *Z* (see Fig. 2).

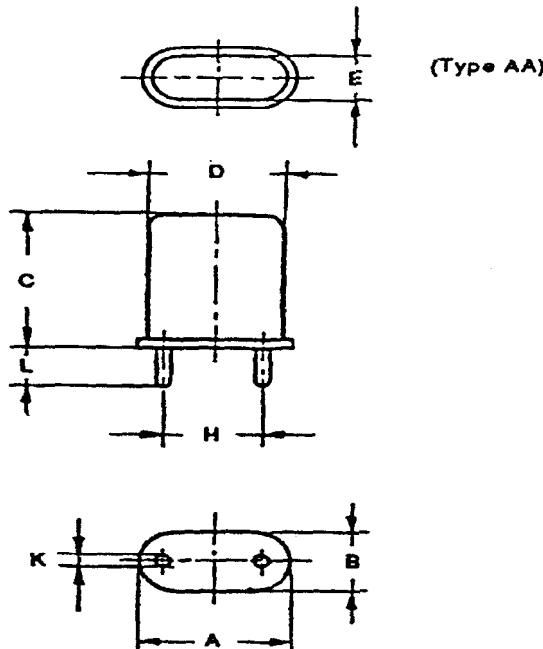


FIG. 1 OUTLINE OF CRYSTAL UNIT HOLDERS

Table 1 Dimensions
(Clause 4.1)

| Sl No. | Ref | Millimetres | | | Remarks |
|-----------|----------|-------------|-------|-------|-----------|
| | | Min | Nom | Max | |
| (1) | (2) | (3) | (4) | (5) | (6) |
| i) | <i>A</i> | — | — | 19.23 | Note 3 |
| ii) | <i>B</i> | — | — | 8.94 | do |
| iii) | <i>C</i> | — | — | 19.68 | { Type AA |
| iv) | <i>C</i> | — | — | 38.76 | { Type AB |
| v) | <i>D</i> | — | — | 18.41 | — |
| vi) | <i>E</i> | — | — | 8.05 | — |
| vii) | <i>H</i> | 12.14 | 12.35 | 12.55 | — |
| viii) | <i>K</i> | 1.22 | 1.27 | 1.32 | Note 1 |
| ix) | <i>L</i> | 5.66 | — | 6.30 | Note 2 |

NOTES

- 1 Pin ends rounded.
- 2 If required, pins may be provided with an undercut.
- 3 *A* and *B* dimensions include an allowance for solder.

7 MATERIALS, CONSTRUCTION AND WORKMANSHIP

See 5 of IS 4570 (Part 1).

8 MARKING

See 6 of IS 4570 (Part 1).

9 TESTS

See 7 of IS 4570 (Part 1).

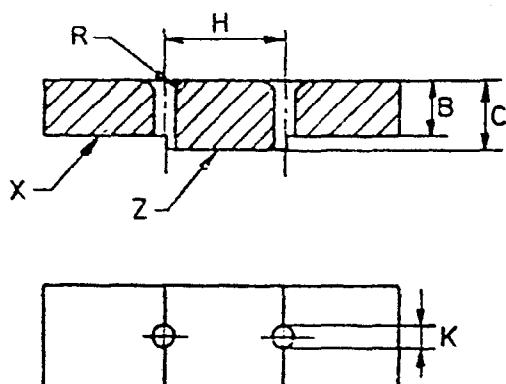


FIG. 2 PIN SPACING AND ALIGNMENT GAUGE

Table 2 Dimensions
(Clause 5.1)

| Sl No. | Ref | Millimetres | | | Note |
|-----------|----------|-------------|--------|--------|--------|
| | | Min | Nom | Max | |
| (1) | (2) | (3) | (4) | (5) | (6) |
| i) | <i>B</i> | 5.652 | 5.664 | 5.676 | { See |
| ii) | <i>C</i> | 6.286 | 6.299 | 6.312 | { Note |
| iii) | <i>H</i> | 12.331 | 12.344 | 12.357 | — |
| iv) | <i>K</i> | 1.511 | 1.524 | 1.537 | — |
| v) | <i>R</i> | — | 0.254 | — | — |

NOTE — When the boss appears on the enclosure base, the gauge must be relieved to admit.

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Amendments Issued Since Publication

| Amend No. | Date of Issue | Text Affected |
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